



Truck & Trailer Outlook Rail Equipment Outlook

Freight Focus

Shippers Update Trucking Update Rail Update Intermodal





















Rail Update

January 2022

Next State of Freight Webinar: 2022 Transportation Markets Update - More of the Same, or a Return to Normalcy?

Thursday, January 13th, 2022 @ 11am Eastern - Register at: ftrintel.com/webinars



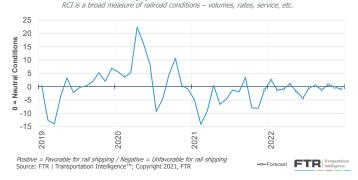
COMMENTARY (pg 23):

Carload faced an interesting 2021 with modest growth.

Growth will slow further this vear.

There was little movement in the carload markets as a flat to slightly positive growth trajectory remains in place for 2022.

FTR Rail Shippers Conditions Index

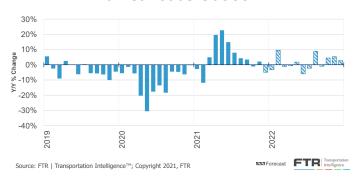


The Rail Shippers Conditions Index is expected to hold at neutral readings for most of 2022, as slow freight growth and a slowing economy keep conditions rangebound.

Service and rates should hopefully improve over the course of the year as volumes hold steady.

See page 4 for more on rail conditions...

Rail Carloads Outlook



Except for the easy February comparison, the carload outlook is nearly flat through the first three quarters before significant growth comes back in the fourth quarter.

A significant number of factors could reduce the expected fourth quarter growth rates.

See page 2 for more on the carloads outlook...

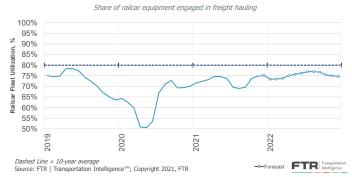
Velocity: Total Rail Weekly Reported Train Speed, Industry Average 28 27 26 년 25 Velocity, 7 22 21 20 8 8 8 8 FTR Transportation Weekly Data. Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

Velocity did not change dramatically in the last few weeks, remaining well below its five-year average.

Velocity gains during the holiday week were noticeable but were not enough to get present levels back to historical averages.

See page 3 for more on rail service...

Railcar Utilization Outlook



The railcar utilization outlook is little changed this month as the expectation of a slow growth freight environment has not materially changed.

It is likely that utilization remains below its long run average of 82% through 2022.

See page 4 for more on capacity and utilization...

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Freight Environment

Freight Indicators & Outlook

- Outlook for growth in 2022 is little changed this month.
- Economically-sensitive volumes remain sluggish.

The slow growth expected in the carload market was little changed in the latest month. Overall gains are expected to be in the 1-2% range compared with 2021. This would mark the second consecutive year of volume growth, but at a lower rate than it has historically moved.

Over the last two decades, carload volumes have increased above the rate of GDP growth, but that is unlikely to be the case in 2021 and 2022. The shift to below GDP growth for the carload markets suggests that market share is moving to truck for those commodities that have the option as rail service continues to struggle.

Of particular concern for carload markets is the fact that economically-sensitive freight categories have trended worse than the overall carload market and are expected to remain in that posture for 2022. This category eliminates the effects that coal, agriculture, and petroleum products can have on the overall carload growth picture.

Coal is unlikely to maintain the volumes it posted in 2021 as a mild start to winter dented heating demand. If lower natural gas prices persist as we head into spring, it will put further pressure on prices and make coal less competitive.

N.A. Rail Carloads Summary

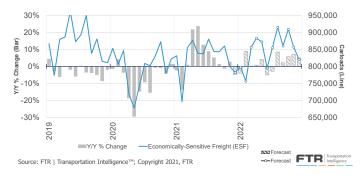
| | Annu | ial Growti | h Rate | | |
|---|-------------|-------------|----------|-------|-------------|
| | | | Forecast | : | |
| Traffic Group | <u>2019</u> | <u>2020</u> | 2021 | 2022 | <u>2023</u> |
| Ag Products | -2.8% | 4.8% | -1.9% | 4.7% | 6.2% |
| Automotive | -1.8% | -20.4% | -0.6% | 13.3% | 7.7% |
| Chemicals | 2.9% | -7.7% | 2.5% | 1.0% | 2.2% |
| Coal | -8.4% | -23.8% | 9.8% | -3.7% | -5.4% |
| Forest Products | -5.9% | -5.6% | 3.9% | 1.5% | 1.7% |
| Metals | -4.0% | -9.7% | 14.4% | -1.4% | 1.0% |
| Nonmetallic Minerals | -5.2% | -13.0% | 3.1% | 2.2% | 3.9% |
| Other | 0.8% | -3.0% | -0.9% | 3.9% | 1.9% |
| MEMO: Economically Sensitive Freight | -3.6% | -11.1% | 4.4% | 1.4% | 1.8% |
| Total | -3.6% | -11.1% | 4.4% | 1.4% | 1.8% |

Source: FTR | Transportation Intelligence™; Copyright 2022, FTR

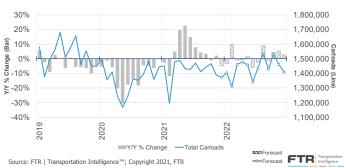
See pages 8-12 for more detailed analysis by traffic group...

See pages 16-22 for charts and graphs by commodity...

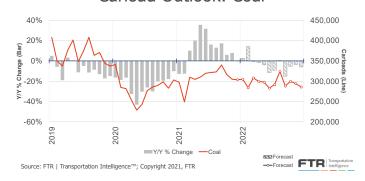
Carload Outlook: Economically-Sensitive Freight



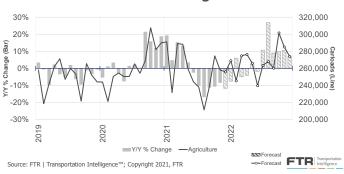
Carload Outlook: Total



Carload Outlook: Coal



Carload Outlook: Ag Products



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Rail Service Environment

Reported train metrics are imperfect indicators of service quality, in that they only deal with line-haul (not terminal) operations and also say nothing about service consistency. However, when speeds drop sharply, it is a good indication of service issues. Because of differences between railroads, these metrics should not be compared one to another; rather, each railroad's current performance should be viewed in the context of previous historical trends.

| Caribau S | er vice Ove | SI VIC VV | |
|--------------------|-------------|--------------|--------------|
| | Latest | | |
| | <u>Week</u> | <u>W/W %</u> | <u>Y/Y %</u> |
| Velocity, mph | 23.82 | -2.4% | -5.6% |
| Dwell Time, hours | 24.57 | -1.9% | 14.7% |
| Cars On Line, 000s | 1,005.2K | 0.6% | 3.2% |

Carload Service Overview

w/w = week-over-week / y/y = year-over-year

Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

Service Metrics

- Velocity showed its typical seasonal holiday behavior, but these gains were not enough to get back to fiveyear average expectations.
- Dwell time also dipped for the holiday week, but jumped back up to its five-year average immediately after the holiday.
- Cars online held at the elevated levels that have been established in recent weeks, as shippers add more equipment to counter the effects of weak service and longer cycle times.

The weak service metrics are not promising for shippers as the winter season dawns. Winter is historically the most difficult time for the railroads to maintain service levels, and any deterioration from present service levels would put carriers in a worse position than the historical average.

Norfolk Southern (NS) recently told the Surface Transportation Board that their recent service is not up to their own or their customers' expectations and that they are working to improve it over the coming quarters. Shippers have said there is wide variation in service between carriers, and NS is one of the carriers that has been acutely effected.

One of the major choke points for rail service issues is operating employee counts, and the carriers have far fewer employees qualified as conductors and engineers now than before the implementation of Precision Scheduled Railroading principles. Shippers have noted that in NS' case it appears that their freight is bypassing certain facilities that are congested or lack sufficient operating crews.

One of the reasons it takes so long for any railroad to improve its manpower situation is that it takes six to nine months for a new hire to be fully licensed and qualified on the federal requirements to run a train efficiently.

Shippers had largely avoided putting more cars into the congested system earlier in the year. Over the last quarter, however, the number of cars online has increased. Shippers are hoping to meet strong demand and offset the effects of longer cycle times by adding equipment to the network.

See pages 13-15 for railroad specific charts on service metrics...

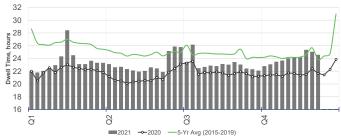
Velocity: Total Rail Weekly Reported Train Speed, Industry Average 28 27 26 22 21 20 2021 —2020 —5-Yr Avg (2015-2019)

Weekly Data. Source: STB, FTR | Transportation Intelligence $^{\text{TM}}$; Copyright 2021, FTR

FTR Transportation Intelligence

Dwell Time: Total Rail

Weekly Reported Terminal Dwell Time, Industry Average

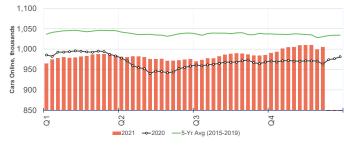


Weekly Data. Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

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Cars Online: Total Rail

Weekly Reported Cars Online, Industry Total



Weekly Data. Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

FTR Transportation

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Capacity & Operations

Carrier Conditions

- Rail Shippers Conditions Index envisions a year with a neutral environment for most of 2022.
- Railcar utilization is little changed this month, with the expectation remaining in place that it will hold near just below its long run average of 82% over the course of 2022.
- Expectations for a 2% rate increase is highly effected by mix shifts at the carriers and will be well above that for some commodities and lanes.

The <u>Rail Shippers Conditions Index</u> will hold neutral ground during 2022, as a slow growth freight market will limit the variation in shipper conditions over the course of the year. The slow growth volume background will also allow service levels to increase and the system to catch up after 18 months of ongoing disruption.

Railcar utilization weakened a little this month, but the expectation remains in place that it will hold just below its long run average of 82% for much of 2022. Improved service could lead to more idle equipment as the year goes on if shippers are able to remove cars from active service as cycle times improve. Hopefully the service improvement will support future freight movements, but that is unlikely to occur during 2022.

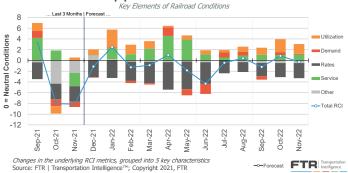
A headwind for utilization next year could be a quicker than expected return to a weak coal market that sidelines open-top hoppers early in 2022. Natural gas prices off their 2021 highs, near \$6/mmBtu to less than \$4/mmBtu as the year closes, could push more utilities back toward gas and away from coal.

<u>Rail rates</u> are expected to have their rate of growth slow over the coming months and quarters for carload movements, but remain in positive territory next year compared with present levels.

The present expectation for carload rate growth of 2% next year is likely to be too low as inflation pressures labor and materials costs higher.

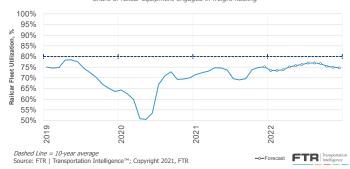
Intermodal rates will slow dramatically over the first half of 2022 and approach flat by June.

Rail Shippers Conditions Index



Railcar Utilization Outlook

nare of railcar equipment engaged in freight hauling



Rail Rate Overview

| Q2'21 | Q3'21 | Q4'21 | 2022 | 2023 |
|--------|--------------------|---------------------------|---|---|
| | F | F | F | F |
| 154.69 | 155.34 | 155.92 | 158.32 | 161.94 |
| 3.2% | 1.1% | 1.7% | 2.1% | 2.3% |
| 5.6% | 4.4% | 5.8% | 3.0% | 2.0% |
| | 154.69 3.2% | F 154.69 155.34 3.2% 1.1% | F F 154.69 155.34 155.92 3.2% 1.1% 1.7% | F F F 154.69 155.34 155.92 158.32 3.2% 1.1% 1.7% 2.1% |

F = Forecast / FSC = Fuel Surcharge

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Public Railroad Carrier Data

| | Revenue, income, costs, and rates | | | | | | | | | | | | |
|---------------|-----------------------------------|---------------|--------------|------------------|------------------|----------------|----------------|----------------|--|--|--|--|--|
| | | | | | <u>Class I</u> | <u>Class I</u> | Rev. per | Rev. per | | | | | |
| | | <u>Net</u> | <u>Total</u> | Operating | <u>Operating</u> | <u>FSC</u> | <u>Tonmile</u> | Tonmile | | | | | |
| Q2'21 | Revenue | <u>Income</u> | <u>Costs</u> | <u>Ratio</u> | <u>Revenue</u> | Revenue | <u>(\$/tm)</u> | xFSC (\$/tm) | | | | | |
| \$ (Millions) | \$17,277 | \$5,692 | \$10,593 | 61.3% | \$18,581 | \$1,125 | \$0.0476 | \$0.0447 | | | | | |
| Q/Q% | 6.0% | 27.9% | 4.0% | -1.9% | 7.7% | 61.2% | 2.4% | 0.2% | | | | | |
| Y/Y% | 25.0% | 71.8% | 13.8% | -8.9% | 30.0% | 100.5% | 5.6% | 3.2% | | | | | |

Source: Company reports, FTR | Transportation Intelligence™; Copyright 2021, FTR -- FSC = Fuel Surcharge

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Economic Environment

Summary

The economy is showing signs of a rebound in Q4 after a slower Q3. Stimulus checks ignited consumer spending in the first half of 2021, and both consumers and businesses contributed to a spike in demand for goods. Overwhelmed supply chains contributed to the jump in inflation. 2022 will likely be a year of re-balancing as aggregate demand for goods cools and spending shifts back to services. This will slow inflation but not quickly enough for the Federal Reserve to avoid taking steps to rein it in. The economy has sturdy fundamentals with solid corporate and household balance sheets. Omicron could slow supply chain progress and force stronger Fed action.

Consumer

Retail sales remained healthy in November, although growth was not as strong as October. Total sales increased 0.3% in November following a 1.8% advance in October. Performance was mixed in November with advances in gas stations, grocery stores, and sporting goods stores, and declines in department stores and electronics and appliance stores. The year-over-year rate increased to 18.2%, up from 16.3% in October. Some of the slower growth in November can be attributed to an earlier pickup in holiday shopping. A slower pace for goods is expected as spending shifts to services. Consumption will remain healthy in 2022.

Manufacturing

The ISM manufacturing index decreased to 58.7 in December from 61.1 in November. There was a modest slowing of the growth in new orders and production. The index components related to prices and supplier deliveries saw notable drops, suggesting continuing improvement in supply chain performance. The outlook for production is decent. Industrial production rose 0.5% in November, following a 1.7% advance in October. Manufacturing advanced 0.7%, in part fueled by a 2.2% increase in auto output. The outlook for the industrial sector is bright, and inventories are low. Near-term prospects will be driven by supply chain improvements.

Residential Construction

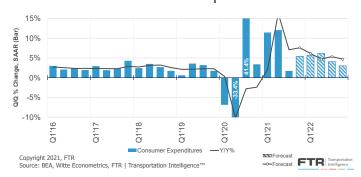
New residential investment increased more than expected in November. Housing starts increased by 11.8% in November to an annual pace of 1.68 million. Single-family starts leaped 11.1% to an annual pace of 1.17 million. The multi-family sector saw starts at 491,000. Future activity looks good as total permits rose 3.6% to 1.712 million. Strong demand, low inventories, and still-low interest rates will support activity. Prices are high, but there are signs of moderation. The number of houses started but not completed is at high levels. Shortages of labor and building materials are still present, but there are indications that the situation is improving.

Economic Outlook Overview

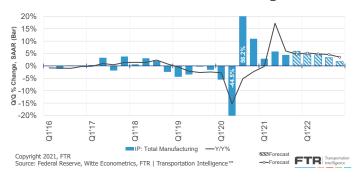
| Q/Q % Change, SAAR | Q3'21 | Q4'21F | 2021F | 2022F |
|--------------------------------------|-------|--------|-------|-------|
| Real Gross Domestic Product (GDP) | 2.1% | 4.7% | 5.5% | 4.5% |
| Industrial Production (IP) | 3.8% | 5.6% | 5.6% | 4.5% |
| Goods Transportation Sector (GTS) | -2.9% | 6.5% | 10.7% | 5.3% |
| F = Forecast | | | | |

Source: Witte Econometrics, FTR; Copyright 2021, FTR

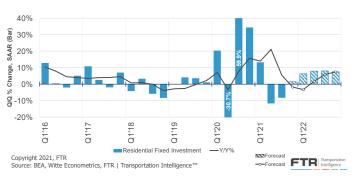
GDP: Consumer Expenditures



IP Outlook: Manufacturing



GDP: Residential Investment



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Economic Environment ...

| Monthly | Ruciness | 2, | Economic | Highlights |
|----------|-----------|-----|-----------------|-------------------|
| MOHILIIV | Dusilless | CX. | ECOHOINE | пинины |

| November's Economic Environ | | | | | | | |
|---|------------|----------------------|------------|-----------|----------|-----------|---|
| | | November Spooked. | had solid | results a | nd shows | an econom | y poised for more gains as long as the consumer doesn't get |
| | <u>Aug</u> | <u>Sep</u> | <u>Oct</u> | Nov | Impact | Y/Y Chg. | Comments |
| INDUSTRIAL PRODUCTION | | | | | | | |
| Total Industrial Production | -0.1% | -1.0% | 1.7% | 0.5% | • | 5.3% | The major continued in Manager but as A A Ab a constant to |
| Total Manufacturing | -0.6% | -0.5% | 1.4% | 0.7% | _ | 4.8% | The gains continued in November, but not at the pace that was achieved in October. There were solid results throughout the industria |
| Automobile and Light Duty Motor Vehicle Production | -5.6% | -13.4% | 16.7% | 4.6% | • | -11.5% | arena. |
| BUSINESS INDICATORS | | | | | | | |
| Unemployment Rate | 5.2% | 4.8% | 4.6% | 4.2% | _ | -250 bp | 18/ |
| Job Creation (Payroll Employment) | 483k | 379k | 546k | 210k | • | 5,802k | Weaker-than-expected payroll data was partially offset by strong data from the household survey. Despite supply and labor challenges, |
| ISM Manufacturing Index | 59.9 | 61.1 | 60.8 | 61.1 | ^ | 360 bp | businesses are showing positive results. |
| CONSUMER INDICATORS | | | | | | | |
| Consumer Confidence (Conference Board) | 115.2 | 109.8 | 111.6 | 109.5 | • | 16.6 pts | Sentiment has been volatile due to the rising and waning of infection |
| Housing Starts | 0.7% | -1.5% | -3.1% | 11.8% | _ | 8.3% | levels. Inflation concerns are also beginning to weigh on expectations |
| Retail Sales | 1.2% | 0.7% | 1.8% | 0.3% | _ | 18.2% | but sales activity remains elevated. |
| Consumer Price Index | 0.3% | 0.4% | 0.9% | 0.8% | ~ | 6.9% | |
| OIL AND FUEL | | | | | | | |
| National Avg. Diesel/Gal. | \$3.350 | \$3.384 | \$3.612 | \$3.727 | • | 53.2% | Fuel prices were notably elevated in November. They may have peaker |
| W. Texas Int. Crude Oil (\$Bbl.) | \$67.73 | \$71.65 | \$81.48 | \$79.15 | • | 93.3% | for the moment as oil prices have droppped. |

Impacts: ▲ = Positive / ▼ = Negative / ● = Neutral

 $Source: Federal\ Reserve,\ BLS,\ ISM,\ Conference\ Board,\ Census\ Bureau,\ EIA,\ FTR\ |\ Transportation\ Intelligence\ ^{TM};\ Copyright\ 2022,\ FTR\ |\ Transportation\ 1022,\ Transportation\$

Employment

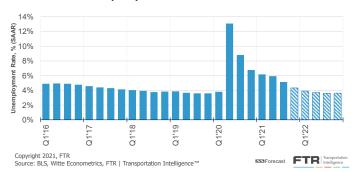
The U.S. economy added just 199,000 payroll jobs, seasonally adjusted, in December for the weakest gain of 2021. The November job gain was revised slightly upward, but the two months saw the year's slowest growth. However, the broader employment picture is more complicated. The household survey, which measures total employment rather than just payroll jobs, showed much stronger gains in November and December. Also, the labor participation rate is the highest of the pandemic at 61.9%. The national unemployment rate declined to 3.9%. With job quits at a record high, we could be seeing a modest shift in the labor market away from payroll employment.

Forecast Risks

The economic recovery has produced supply chain and labor shortages that are feeding inflation. A great deal of the fuel for inflation comes from the unexpectedly quick rebound in demand for goods. The stimulus packages added fuel to the fire. Fading stimulus and the shift of spending back to services could weaken goods demand and help clear ports and slow overall inflation. The problem is that it will take more time than the Fed will tolerate. The biggest near-term risk is the omicron variant, which could slow the progress in balancing supply chains and feed inflation. This raises pressure on the Fed to act with more force than needed.

See page 7 for detailed economic outlook...

Unemployment Rate Outlook



Economic Outlook Probabilities

| GDP I | GDP Forecast Confidence Levels | | | | | | | | | | | | |
|---------------|-------------------------------------|--------------------|--|------|-----|--|--|--|--|--|--|--|--|
| | Next 4 Quarters Following 2 Years | | | | | | | | | | | | |
| | GDP GDP | | | | | | | | | | | | |
| | <u>Range</u> | <u>Probability</u> | | | | | | | | | | | |
| Faster Growth | > 7% | 15% | | > 3% | 25% | | | | | | | | |
| Base Forecast | 5.0% | 60% | | 2.5% | 50% | | | | | | | | |
| Slower Growth | < 3% | 25% | | < 2% | 25% | | | | | | | | |

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TABLE: U.S. Economic Outlook

U.S. Economic & Industrial Outlook

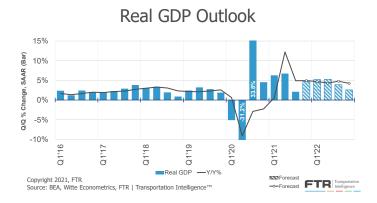
| | | | Foreca | sts of ke | v econon | nic data | | | | | | |
|----------------------------------|----------|----------|----------|-----------|----------|----------|----------|----------|-------------|-------------|-------------|----------|
| | 2021 | | | | 2022 | | | | | Ann | ual | |
| | Q1'21 | Q2'21 | Q3'21 | Q4'21 | Q1'22 | Q2'22 | Q3'22 | Q4'22 | <u>2020</u> | <u>2021</u> | <u>2022</u> | 2023 |
| F = Forecast | | | | F | F | F | F | F | | F | F | F |
| Gross Domestic Product (SAAR) | | | | | | | | | | | | |
| Real GDP | 6.3% | 6.7% | 2.1% | 4.7% | 5.2% | 5.3% | 3.9% | 2.6% | -3.4% | 5.5% | 4.5% | 2.8% |
| Consumer Expenditures | 11.4% | 12.0% | 1.7% | 5.4% | 5.7% | 6.1% | 4.1% | 3.0% | -3.8% | 8.0% | 5.2% | 3.2% |
| Residential Fixed Investment | 13.3% | -11.7% | -8.3% | 1.5% | 6.3% | 7.9% | 8.0% | 7.5% | 6.8% | 9.1% | 2.8% | 6.7% |
| Change-Business Inventories | -177.1 | -80.2 | 95.4 | 43.3 | 30.0 | 30.0 | 33.1 | 0.3 | -1.6 | 1.1 | -1.4 | 0.6 |
| Real Exports of Goods | -1.4% | 6.4% | -5.8% | 3.3% | 3.2% | 3.1% | 3.1% | 3.1% | -10.2% | 6.3% | 2.2% | 3.1% |
| Real Imports of Goods | 10.6% | 4.3% | -0.1% | 6.5% | 6.3% | 7.7% | 7.3% | 5.5% | -5.6% | 13.8% | 5.7% | 5.7% |
| Goods Transportation Sector | 10.0% | 5.2% | -2.9% | 6.5% | 6.7% | 7.4% | 6.8% | 4.5% | -3.1% | 10.7% | 5.3% | 4.6% |
| CPI Index | 3.7% | 8.4% | 6.6% | 5.2% | 3.5% | 3.8% | 4.0% | 3.5% | 1.2% | 4.5% | 4.6% | 3.5% |
| Housing Starts - Millions (SAAR) | 1.60 | 1.59 | 1.56 | 1.59 | 1.60 | 1.62 | 1.62 | 1.64 | 1.40 | 1.58 | 1.62 | 1.64 |
| % Change (SAAR) | 6.1% | -2.6% | -8.1% | 8.2% | 4.3% | 3.9% | 1.5% | 3.2% | 8.1% | 13.3% | 2.4% | 1.4% |
| Auto Sales - Millions (SAAR) | 16.8 | 16.9 | 13.3 | 12.9 | 13.9 | 14.8 | 15.4 | 15.6 | 14.5 | 15.0 | 14.9 | 15.7 |
| 3 Month T-Bill Rate, % | 0.1% | 0.0% | 0.0% | 0.1% | 0.1% | 0.1% | 0.2% | 0.4% | 0.4% | 0.0% | 0.2% | 0.7% |
| Moody AAA Bonds, % | 2.7% | 2.9% | 2.6% | 2.7% | 2.8% | 2.8% | 2.9% | 3.0% | 2.5% | 2.7% | 2.9% | 3.1% |
| Unemployment Rate, % | 6.2% | 5.9% | 5.1% | 4.3% | 3.9% | 3.7% | 3.6% | 3.6% | 8.1% | 5.4% | 3.7% | 3.6% |
| Federal Surplus, \$ (SAAR) | -\$4,089 | -\$3,313 | -\$2,250 | -\$1,696 | -\$1,533 | -\$1,449 | -\$1,414 | -\$1,431 | -\$3,110 | -\$2,837 | -\$1,457 | -\$1,458 |

| | 2021 2022 | | | | | | | Annual | | | | |
|------------------------------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|------|------|------|
| | Q1'21 | Q2'21 | Q3'21 | Q4'21 | Q1'22 | Q2'22 | Q3'22 | Q4'22 | 2020 | 2021 | 2022 | 2023 |
| F = Forecast | | | | F | F | F | F | F | | F | F | F |
| Industrial Production (SAAR) | | | | | | | | | | | | |
| Total IP | 4.0% | 6.5% | 3.8% | 5.6% | 4.7% | 4.5% | 3.2% | 1.8% | -7.2% | 5.6% | 4.5% | 1.9% |
| Manufacturing, Total | 2.9% | 5.8% | 4.4% | 6.0% | 4.7% | 4.5% | 3.4% | 1.8% | -6.4% | 6.6% | 4.6% | 1.8% |
| Manufacturing, Non-Durables | -1.1% | 12.9% | 0.4% | 5.5% | 4.4% | 3.7% | 2.7% | 1.4% | -4.4% | 4.4% | 4.0% | 1.5% |
| Manufacturing, Durables | 6.7% | -0.2% | 8.3% | 6.4% | 4.9% | 5.2% | 3.9% | 2.0% | -8.2% | 8.6% | 5.0% | 2.2% |
| Mining | 7.3% | 22.1% | -0.4% | 13.6% | 5.7% | 5.1% | 4.4% | 3.0% | -14.2% | 2.9% | 6.8% | 2.7% |
| Utilities | 8.7% | 0.3% | 5.3% | -6.2% | 3.8% | 4.5% | 1.2% | 1.1% | -3.4% | 2.5% | 1.4% | 1.6% |

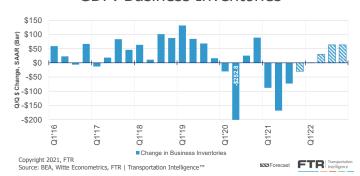
Q/Q % Change, SAAR // F = Forecast

SAAR is Seasonally Adjusted Annual Rates or Seasonally Adjusted Quarter to Quarter Changes at Annual Rates.

 $Source: \textit{Witte Econometrics}, \textit{Federal Reserve}, \textit{BEA}, \textit{FTR} \mid \textit{Transportation Intelligence} \\ ^{\text{TM}}; \textit{Copyright 2021}, \textit{FTR} \mid \textit{Transportation Intelligence} \\ \text{TM} \mid \textit{Transportation Intel$



GDP: Business Inventories



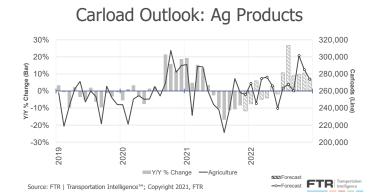
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Ag Products: Rebound possible in 2022

After a decline in 2021 of less than 2% compared with a tough comparison in 2020, the agricultural products space should grow in 2022 and 2023.

While the last few months of 2021 have been disappointing from a volume perspective, at least some of that can be explained away by a lower than expected Canadian harvest. Extreme heat this summer on the Canadian prairies dented yields.

The expectation for growth in this sector has come down from last month as expectations for volumes over the first two months of the year have weakened. It is now expected that most of the volume powering that growth will come once the harvest is made next fall.



Traffic Group: Agricultural Products

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|-------------------|---------------|----------------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Total Ag Products | 258.00 | 255.95 | 268.98 | 688.15 | 788.53 | 789.10 | 3,079.7 | 3,223.7 | 3,424.9 |
| P/P % Change | -6.0% | -0.8% | 5.1% | -13.1% | 14.6% | 0.1% | | | |
| Y/Y % Change | -8.5% | -11.7% | -7.6% | -12.7% | -10.3% | -2.8% | -1.9% | 4.7% | 6.2% |

F = Forecast

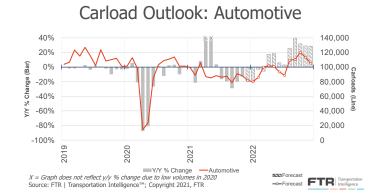
Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Automotive: Waiting for supply constraints to ease

This year is expected to see a strong gain in volumes, but the timing and magnitude of those gains will depend solely on when the supply chain eases for semiconductors and other parts.

It does not appear that the first part of the year will be much different from how 2021 ended for automotive; but, as the supply chain eases, volumes should steadily increase from the second guarter onward.

There is substantial risk in our current forecast if the automotive supply chain remains gummed up longer than expected and vehicles do not start flowing until the middle of the third quarter or later. Such a development would obviously cap growth expectations at a much lower level.



Traffic Group: Automotive

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------|---------------|----------------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Total Automotive | 87.96 | 81.85 | 79.89 | 252.51 | 260.85 | 266.00 | 1,068.3 | 1,210.2 | 1,303.0 |
| P/P % Change | -3.4% | -6.9% | -2.4% | -3.1% | 3.3% | 2.0% | | | |
| Y/Y % Change | -12.9% | -19.3% | -19.9% | -21.8% | -17.5% | -9.7% | -0.6% | 13.3% | 7.7% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

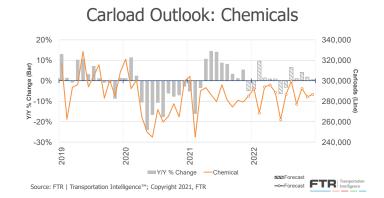
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Chemicals: Growth rates slowing over the next year

The chemicals sector is expected to have its growth rate slow in 2022 before picking back up in 2023, but that may be too pessimistic in the near term.

There has been an elevated level of uncertainty around natural gas prices over the last few months as prices rose to \$6/mmBtu, but they have since retreated back closer to \$4/mmBtu which should ease chemical producers' concerns about feedstock prices.

Chemical carloads have run at healthy levels for much of 2021 with the exception of weather-related disruptions in February and September. More normal feedstock prices should support growth in 2022 that may exceed present expectations.



Traffic Group: Chemicals

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------|---------------|----------------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Total Chemicals | 279.22 | 285.07 | 292.11 | 851.43 | 845.11 | 854.65 | 3,395.0 | 3,427.8 | 3,502.3 |
| P/P % Change | -0.6% | 2.1% | 2.5% | -0.9% | -0.7% | 1.1% | | | |
| Y/Y % Change | 5.5% | -4.9% | -4.0% | 6.8% | 0.4% | 1.8% | 2.5% | 1.0% | 2.2% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

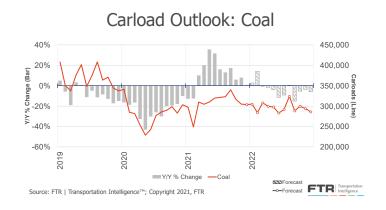
Coal: Weaker gas prices add downside risk to the forecast

Coal is the commodity that will experience the flip side of lower natural gas prices. The lower price point for the competing generation fuel will make coal less attractive to generators and reduce the amount of coal moved by rail.

Present expectations are likely overstated given the sharp counter seasonal decline in natural gas prices, as generators are likely to need less coal than previously expected.

A mild start to the winter does not guarantee that it will stay that way, so the coal forecast is only little changed until a clearer picture of the full winter can be obtained.

A colder balance of the winter could further support natural gas prices and, by extension, coal demand.



Traffic Group: Coal

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------|---------------|----------------|----------------|--------------|--------|--------|--------------|--------------|--------------|
| Total Coal | 304.89 | 303.71 | 304.77 | 984.04 | 924.83 | 897.00 | 3,699.3 | 3,561.0 | 3,367.9 |
| P/P % Change | -3.6% | -0.4% | 0.3% | 5.3% | -6.0% | -3.0% | | | |
| Y/Y % Change | 7.9% | 0.2% | 2.6% | 15.5% | 4.6% | 4.8% | 9.8% | -3.7% | -5.4% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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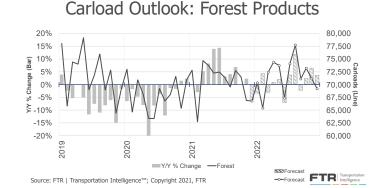
Forest Products: Few changes to the outlook at end of year

There were not many changes in the forest products sector this month as the overall slower growth trajectory remains in place.

A growth rate of 1.5% in 2022 is down by 0.1% compared with the expectation last month, though there is downside risk to the lumber and wood portion of forest products in the new year.

Housing is one of the key demand drivers for lumber and wood volumes, and residential construction could slow significantly next year in response to higher mortgage rates and higher average selling prices.

Pulp and paper has been unexpectedly weak to end 2021, and this could carry into the start of 2022.



Traffic Group: Forest Products

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|-----------------------|---------------|----------------|----------------|--------------|--------|--------|--------------|--------------|--------------|
| Total Forest Products | 66.89 | 66.78 | 70.37 | 213.71 | 205.20 | 208.22 | 847.6 | 860.3 | 874.6 |
| P/P % Change | -6.5% | -0.2% | 5.4% | -2.2% | -4.0% | 1.5% | | | |
| Y/Y % Change | 2.3% | -5.8% | -3.4% | 4.7% | -1.3% | -0.9% | 3.9% | 1.5% | 1.7% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

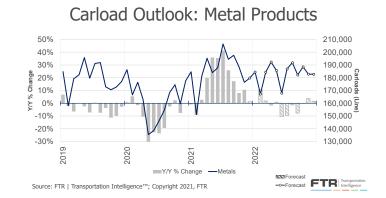
Metals & Products: Growth will turn negative next year

After a 2021 that showed strong growth supported by strong metal prices, 2022 will see that growth evaporate and turn slightly negative.

This year's metals and products volumes are expected to be 1.3% below 2021's levels, so absolute volumes will remain just below where they were last year.

Prices for metals are expected to decline slowly over the course of next year, and this could cause volumes to ease further as purchasers re-evaluate their needs.

Demand could also be supported by stronger automotive production that should be ramping up over the course of the year, and is one of the biggest users of fabricated metal products.



Traffic Group: Metals & Products

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------------------------|---------------|----------------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Total Metals & Products | 176.39 | 179.78 | 184.49 | 598.53 | 544.70 | 536.13 | 2,227.2 | 2,197.1 | 2,218.7 |
| P/P % Change | -6.4% | 1.9% | 2.6% | 5.6% | -9.0% | -1.6% | | | |
| Y/Y % Change | 10.6% | 1.2% | -0.1% | 27.6% | 6.5% | 3.7% | 14.4% | -1.4% | 1.0% |

F = Forecast

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Nonmetallic Minerals: Next year's expectations decline

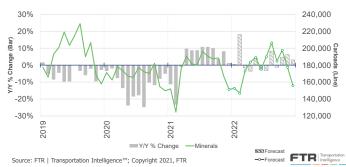
The expectation for volumes in this sector came down noticeably this month, as details of the recently passed infrastructure bill became better understood.

The bill does not allocate a significant amount of money above present levels and will have a muted effect on encouraging demand for construction and gravel materials.

This sector had been one of the expected beneficiaries of the bill's expanded spending, but that now appears significantly less likely to have a meaningful impact on loadings.

Overall non-metallic minerals traffic is expected to increase 2.2% in 2022 compared with 2021 levels.

Carload Outlook: Nonmetallic Minerals



Traffic Group: Nonmetallic Minerals

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | Q3'21 | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|----------------------|---------------|----------------|----------------|--------|--------|--------|--------------|--------------|--------------|
| Nonmetallic Minerals | 167.09 | 151.31 | 152.68 | 573.96 | 506.97 | 472.89 | 2,085.7 | 2,132.6 | 2,215.6 |
| P/P % Change | -11.4% | -9.4% | 0.9% | 4.0% | -11.7% | -6.7% | | | |
| Y/Y % Change | 8.2% | 1.0% | 0.4% | 10.5% | 4.2% | 4.5% | 3.1% | 2.2% | 3.9% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

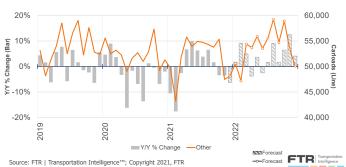
Other Carloads: Small change to the outlook to end 2021

Other carloads are expected to be slightly stronger than previous forecasts, increasing just under 4% in 2022 compared with 2021. This is up from a forecast of just above 3% last month.

Waste and non-ferrous scrap volumes are expected to decline less than 1% next year, after a nearly 11% rise in 2021 compared against a pandemic-limited 2020 result.

All other carloads make up a small number of absolute carloads, meaning small changes have a large effect on growth rates. In 2022, volumes are expected to grow 6.3% compared with 2021. This year, volumes were just over 6% weaker compared with 2020.

Carload Outlook: All Other



Traffic Group: Other Carloads

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------|---------------|----------------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Other Carloads | 47.47 | 48.10 | 50.60 | 162.82 | 150.93 | 152.22 | 623.2 | 647.3 | 659.4 |
| P/P % Change | -14.3% | 1.3% | 5.2% | -1.1% | -7.3% | 0.9% | | | |
| Y/Y % Change | -3.5% | -6.3% | 1.7% | 4.0% | -4.4% | 5.1% | -0.9% | 3.9% | 1.9% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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TABLE: N.A. Rail Freight Outlook

| N | A Rail | Freight | Traffic | Grouns | 2, | Utilization |
|------|---------|-----------|---------|--------|-----|-------------|
| 14./ | 4. Kali | rielulit. | Hallic | GIUUUS | CX. | Utilization |

| Not Seasonally Adjusted (000s of Loadings Originated) | | | | | | | | | | | | |
|---|---------------|----------|--------------|-----------|----------------|-------------|----------|--------------|-------------|--------------|--------------|----------|
| | | | | MONTH | | | | | | QUARTER | | |
| F = Forecast | <u>Sep-21</u> | Oct-21 | Nov-21 | Dec-21F | <u>Jan-22F</u> | Feb-22F | Mar-22F | <u>Q2'21</u> | Q3'21 | Q4'21F | Q1'22F | Q2'22F |
| Total Carloads | 1,443.07 | 1,466.65 | 1,387.91 | 1,372.56 | 1,403.88 | 1,310.79 | 1,461.55 | 4,347.59 | 4,325.14 | 4,227.12 | 4,176.21 | 4,278.05 |
| Railcar Utilization Rate (%, SA) ² | 69.6% | 73.8% | 74.8% | 75.2% | 73.4% | 73.4% | 73.8% | 74.4% | 69.4% | 74.6% | 73.6% | 75.7% |
| Traffic Groups | | | | | | | | | | | | |
| Ag Products | 238.82 | 274.58 | 258.00 | 255.95 | 268.98 | 245.42 | 274.71 | 791.46 | 688.15 | 788.53 | 789.10 | 782.16 |
| Automotive | 78.75 | 91.04 | 87.96 | 81.85 | 79.89 | 86.02 | 100.09 | 260.53 | 252.51 | 260.85 | 266.00 | 296.56 |
| Chemicals | 274.32 | 280.82 | 279.22 | 285.07 | 292.11 | 268.46 | 294.08 | 859.08 | 851.43 | 845.11 | 854.65 | 846.55 |
| Coal | 339.86 | 316.23 | 304.89 | 303.71 | 304.77 | 284.05 | 308.18 | 934.35 | 984.04 | 924.83 | 897.00 | 880.31 |
| Forest Products | 72.74 | 71.53 | 66.89 | 66.78 | 70.37 | 65.41 | 72.44 | 218.45 | 213.71 | 205.20 | 208.22 | 215.50 |
| Metals | 197.55 | 188.53 | 176.39 | 179.78 | 184.49 | 167.28 | 184.37 | 566.97 | 598.53 | 544.70 | 536.13 | 545.91 |
| Nonmetallic Minerals | 187.22 | 188.57 | 167.09 | 151.31 | 152.68 | 146.96 | 173.25 | 552.14 | 573.96 | 506.97 | 472.89 | 547.94 |
| Other | 53.79 | 55.36 | 47.47 | 48.10 | 50.60 | 47.19 | 54.43 | 164.60 | 162.82 | 150.93 | 152.22 | 163.11 |
| MEMO: Economically Sensitive Freight | 842.81 | 859.92 | 799.83 | 781.71 | 797.92 | 756.33 | 856.13 | 2,552.17 | 2,566.74 | 2,441.45 | 2,410.38 | 2,550.15 |
| Y/Y % Change ¹ | | | | | | | | | | | | |
| Total Carloads | 3.5% | -1.1% | 2.1% | -4.9% | -3.3% | 9.6% | -1.2% | 19.0% | 5.2% | -1.4% | 1.2% | -1.6% |
| Traffic Groups | | | | | | | | | | | | |
| Ag Products | -11.3% | -10.7% | -8.5% | -11.7% | -7.6% | 6.0% | -4.9% | 4.8% | -12.7% | -10.3% | -2.8% | -1.2% |
| Automotive | -29.1% | -20.1% | -12.9% | -19.3% | -19.9% | -3.0% | -5.6% | 111.1% | -21.8% | -17.5% | -9.7% | 13.8% |
| Chemicals | 3.4% | 1.2% | 5.5% | -4.9% | -4.0% | 9.6% | 1.4% | 13.1% | 6.8% | 0.4% | 1.8% | -1.5% |
| Coal | 17.3% | 5.9% | 7.9% | 0.2% | 2.6% | 14.1% | -0.6% | 28.8% | 15.5% | 4.6% | 4.8% | -5.8% |
| Forest Products | 6.9% | -0.1% | 2.3% | -5.8% | -3.4% | 4.3% | -3.0% | 12.1% | 4.7% | -1.3% | -0.9% | -1.3% |
| Metals | 17.3% | 8.0% | 10.6% | 1.2% | -0.1% | 10.6% | 1.8% | 29.8% | 27.6% | 6.5% | 3.7% | -3.7% |
| Nonmetallic Minerals | 10.0% | 3.5% | 8.2% | 1.0% | 0.4% | 18.0% | -1.6% | 9.1% | 10.5% | 4.2% | 4.5% | -0.8% |
| Other | 1.7% | -3.5% | -3.5% | -6.3% | 1.7% | 9.1% | 5.0% | 7.6% | 4.0% | -4.4% | 5.1% | -0.9% |
| MEMO: Economically Sensitive Freight | 1.4% | -1.4% | 2.7% | -4.9% | -4.0% | 8.8% | 0.2% | 19.3% | 5.1% | -1.3% | 1.2% | -0.1% |
| | | Annua | Data (| ′000,000s | of Loading | gs Originat | red) | | | | | |
| F = Forecast | <u>2020</u> | | <u>2021F</u> | | <u>2022F</u> | | 2023F | <u>2019</u> | <u>2020</u> | <u>2021F</u> | <u>2022F</u> | 2023F |
| Total Carloads | 16.310 | | 17.026 | | 17.260 | | 17.567 | -3.6% | -11.1% | 4.4% | 1.4% | 1.8% |
| Railcar Utilization Rate (%, SA) ² | 63.4% | | 72.7% | | 75.3% | | 76.5% | | | | | |
| Traffic Groups | | | | | | | | | | | | |
| Ag Products | 3.139 | | 3.080 | | 3.224 | | 3.425 | -2.8% | 4.8% | -1.9% | 4.7% | 6.2% |
| Automotive | 1.075 | | 1.068 | | 1.210 | | 1.303 | -1.8% | -20.4% | -0.6% | 13.3% | 7.7% |
| Chemicals | 3.312 | | 3.395 | | 3.428 | | 3.502 | 2.9% | -7.7% | 2.5% | 1.0% | 2.2% |
| Coal | 3.369 | | 3.699 | | 3.561 | | 3.368 | -8.4% | -23.8% | 9.8% | -3.7% | -5.4% |
| Forest Products | 0.815 | | 0.848 | | 0.860 | | 0.875 | -5.9% | -5.6% | 3.9% | 1.5% | 1.7% |
| Metals | 1.947 | | 2.227 | | 2.197 | | 2.219 | -4.0% | -9.7% | 14.4% | -1.4% | 1.0% |
| Nonmetallic Minerals | 2.024 | | 2.086 | | 2.133 | | 2.216 | -5.2% | -13.0% | 3.1% | 2.2% | 3.9% |
| Other | 0.629 | | 0.623 | | 0.647 | | 0.659 | 0.8% | -3.0% | -0.9% | 3.9% | 1.9% |
| MEMO: Economically Sensitive Freight | 9.560 | | 9.942 | | 10.177 | | 10.479 | -3.1% | -8.3% | 4.0% | 2.4% | 3.0% |

Notes:

SA: Seasonally Adjusted

Traffic Groups tie to AAR Weekly Rail Traffic definitions.

Source: FTR | Transportation Intelligence™; Copyright 2022, FTR

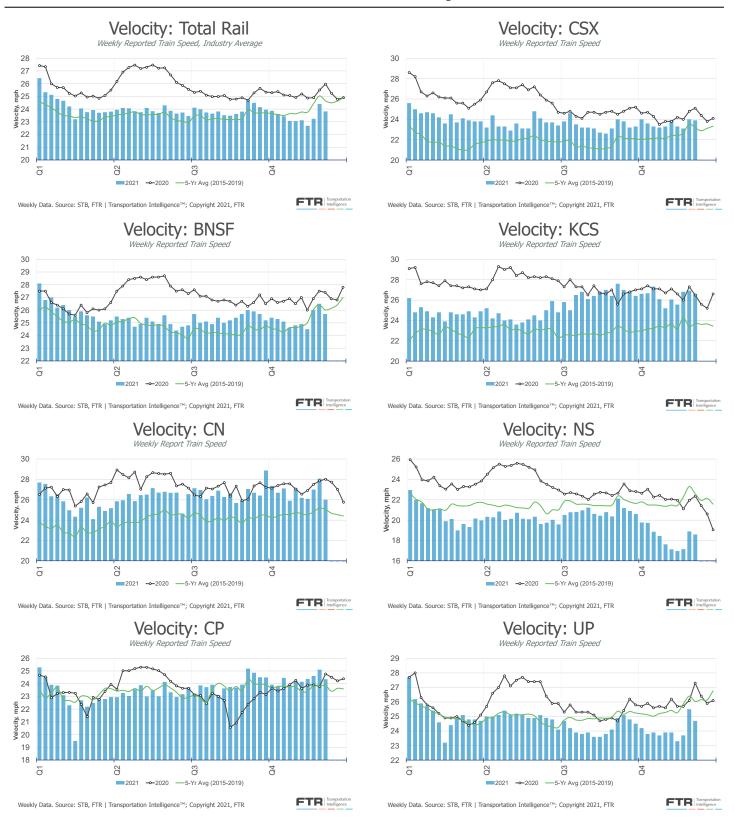
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¹ - Y/Y % Change: Current period vs. year-ago period.

² - Utilization Rate: Railcars in use as a percentage of total railcar population.

Rail Service by Railroad

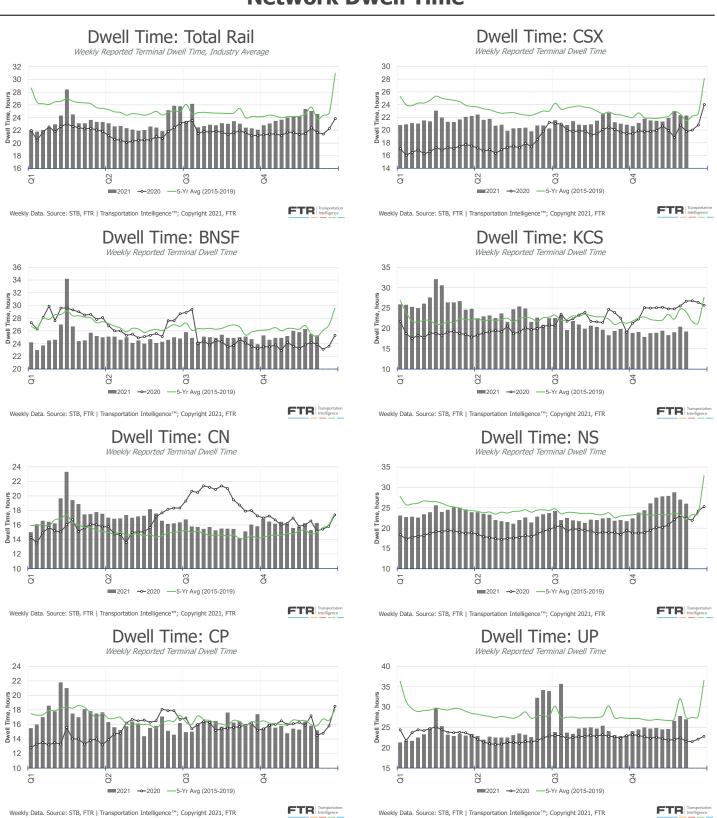
Network Velocity



Weekly Data. Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

Rail Service by Railroad

Network Dwell Time

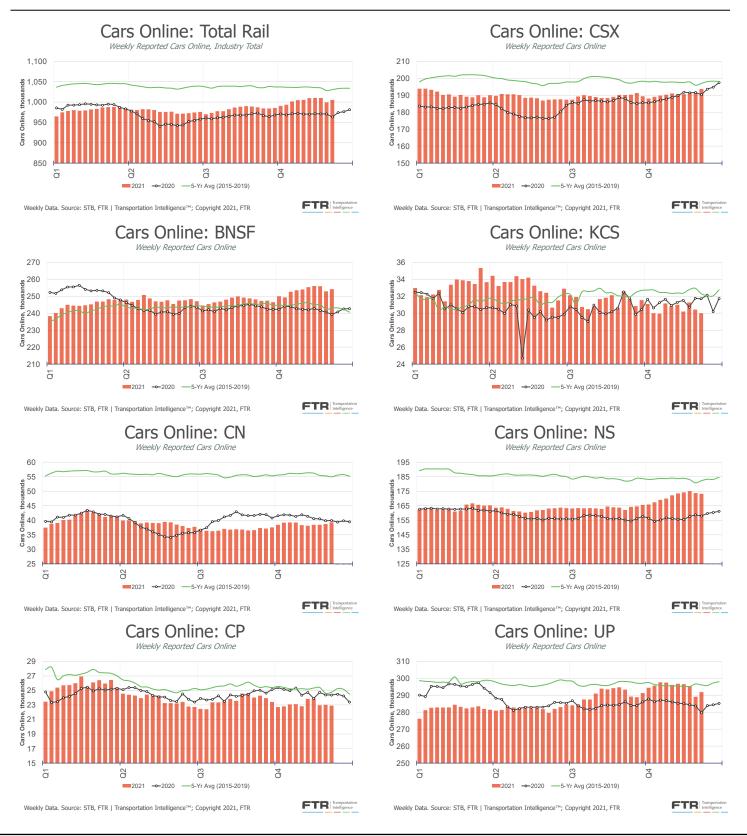


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Weekly Data. Source: STB, FTR | Transportation Intelligence™; Copyright 2021, FTR

Rail Service by Railroad

Network Cars Online





Agricultural Products

FTR Transportation Intelligence

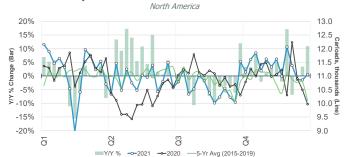
Weekly Carloads: Grain 45 60% 40 ≅ 40% Y/Y % Change 30 ang 25 (Line) -20% 20 -40% 02 03 8 9 **-**0-2021 **-**-2020 --5-Yr Avg (2015-2019)

Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| Commodity: Grain | | | | | | | | | | | |
|------------------|--------|---------|---------|--------|--------|--------|---------|---------|---------|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | |
| Grain | 150.40 | 149.28 | 158.69 | 373.02 | 456.87 | 461.09 | 1,775.2 | 1,900.6 | 2,043.7 | | |
| Y/Y % Change | -11.7% | -14.7% | -9.1% | -15.4% | -13.0% | -3.5% | -0.4% | 7.1% | 7.5% | | |

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Weekly Carloads: Grain Mill Products



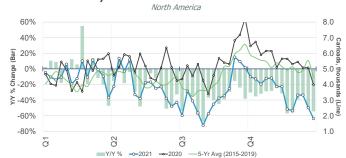
Weekly Data. Source: AAR, FTR | Transportation Intelligence $^{\text{\tiny{TM}}}$; Copyright 2021, FTR

| Commodity: Grain Mill Products | | | | | | | | | | | |
|--------------------------------|--------|---------|---------|--------|--------|--------|-------|-------|-------|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | |
| Grain Mill Products | 48.60 | 49.28 | 50.69 | 140.28 | 147.72 | 148.20 | 572.2 | 586.5 | 602.6 | | |
| Y/Y % Change | 7.1% | 0.8% | -0.7% | -2.9% | 2.0% | 3.3% | 0.8% | 2.5% | 2.8% | | |

r = rorecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Weekly Carloads: Farm Products



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| Commodity: Farm Products | | | | | | | | | | | |
|--------------------------|--------|---------|---------|--------|--------|--------|--------|-------|-------|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | |
| Farm Products | 15.05 | 14.26 | 14.82 | 43.55 | 48.34 | 44.57 | 202.9 | 191.3 | 226.0 | | |
| Y/Y % Change | -33.2% | -37.2% | -26.3% | -39.5% | -34.2% | -25.9% | -25.9% | -5.7% | 18.1% | | |
| | | | | | | | | | | | |

FTR Transportation

FTR Transportation Intelligence

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Weekly Carloads: Food & Kindred Products



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| Commodity: Food Products | | | | | | | | | | | |
|--------------------------|--------|---------|---------|--------|--------|--------|-------|-------|-------|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | |
| Food Products | 43.95 | 43.13 | 44.77 | 131.31 | 135.59 | 135.24 | 529.3 | 545.3 | 552.6 | | |
| Y/Y % Change | 0.3% | -0.3% | -1.0% | 0.1% | -0.4% | 3.8% | 2.9% | 3.0% | 1.3% | | |
| | | | | | | | | | | | |

· = rorecas: Source: FTR | Transportation Intelligence™: Copyrig

Traffic Group: Agricultural Products

| 000s of Carloads | <u>Nov-21</u> | Dec-21F | <u>Jan-22F</u> | Q3'21 | Q4'21F | Q1'22F | <u>2021F</u> | 2022F | 2023F | |
|-------------------|---------------|---------|----------------|--------|--------|--------|--------------|---------|---------|--|
| Total Ag Products | 258.00 | 255.95 | 268.98 | 688.15 | 788.53 | 789.10 | 3,079.7 | 3,223.7 | 3,424.9 | |
| P/P % Change | -6.0% | -0.8% | 5.1% | -13.1% | 14.6% | 0.1% | | | | |
| Y/Y % Change | -8.5% | -11.7% | -7.6% | -12.7% | -10.3% | -2.8% | -1.9% | 4.7% | 6.2% | |
| Grain | -11.7% | -14.7% | -9.1% | -15.4% | -13.0% | -3.5% | -0.4% | 7.1% | 7.5% | |
| Farm Products | -33.2% | -37.2% | -26.3% | -39.5% | -34.2% | -25.9% | -25.9% | -5.7% | 18.1% | |
| Grain Mill | 7.1% | 0.8% | -0.7% | -2.9% | 2.0% | 3.3% | 0.8% | 2.5% | 2.8% | |
| Food Products | 0.3% | -0.3% | -1.0% | 0.1% | -0.4% | 3.8% | 2.9% | 3.0% | 1.3% | |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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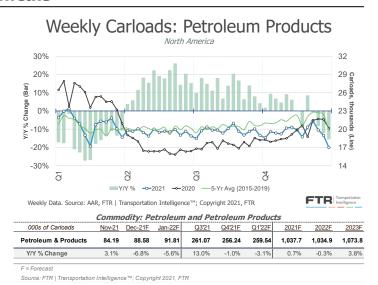


Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

N.A. Carload Commodities

Chemicals

Weekly Carloads: Chemicals 30% 53 50 ဋ္ဌ 20% ⁸ -10% (Line) -20% -30% 35 02 03 8 8 ■ Y/Y % ---2021 ---2020 ---5-Yr Avg (2015-2019) Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR Commodity: Chemicals 000s of Carloads Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 588.87 Y/Y % Change 6.6% -4.0% -3.3% 4.3% 3.3% 1.5% 1.5%



| Traffic Group: Chemicals | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|---------|---------|---------|--|--|--|
| 000s of Carloads <u>Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 2021F 2022</u> | | | | | | | | | | | | |
| Total Chemicals | 279.22 | 285.07 | 292.11 | 851.43 | 845.11 | 854.65 | 3,395.0 | 3,427.8 | 3,502.3 | | | |
| P/P % Change | -0.6% | 2.1% | 2.5% | -0.9% | -0.7% | 1.1% | | | | | | |
| Y/Y % Change | 5.5% | -4.9% | -4.0% | 6.8% | 0.4% | 1.8% | 2.5% | 1.0% | 2.2% | | | |
| Chemicals | 6.6% | -4.0% | -3.3% | 4.3% | 1.0% | 4.1% | 3.3% | 1.5% | 1.5% | | | |
| Petroleum & Products | 3.1% | -6.8% | -5.6% | 13.0% | -1.0% | -3.1% | 0.7% | -0.3% | 3.8% | | | |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

Forest Products

Weekly Carloads: Primary Forest Products



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

FTR | Transportation Intelligence

| Commodity: Primary Forest Products | | | | | | | | | | | | |
|------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--|--|--|
| 000s of Carloads | Nov-21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | | | | | |
| Primary Forest Products | 8.26 | 8.14 | 8.75 | 25.58 | 25.48 | 26.11 | 102.7 | 108.2 | 107.0 | | | |
| Y/Y % Change | 2.9% | -0.1% | 1.4% | -1.8% | 1.8% | 5.5% | 0.0% | 5.4% | -1.1% | | | |

 $Source: \textit{FTR} \mid \textit{Transportation Intelligence}^{\intercal M}; \textit{Copyright 2021}, \textit{FTR}$

Weekly Carloads: Lumber & Wood



Commodity: Lumber & Wood Products 000s of Carloads Nov-21 Dec-21F Q3'21 Q4'21F 2023F Lumber & Wood Products 81.03 Y/Y % Change -7 N% 0.5% 1.5%

Source: FTR | Transportation Intelligence $^{\text{TM}}$; Copyright 2021, FTR

Weekly Carloads: Pulp & Paper Products



Weekly Data. Source: AAR, FTR | Transportation Intelligence $^{\text{TM}}$; Copyright 2021, FTR

FTR Transportation Intelligence

| Commodity: Pulp & Paper Products | | | | | | | | | | | | |
|----------------------------------|--------|---------|---------|--------|--------|--------|-------|-------|-------|--|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | | |
| Pulp & Paper | 33.03 | 34.12 | 35.23 | 107.74 | 101.30 | 101.08 | 414.2 | 419.6 | 430.2 | | | |
| Products | 33.03 | 34.12 | 35.23 | 107.74 | 101.30 | 101.00 | 414.2 | 419.0 | 430.2 | | | |
| Y/Y % Change | 2.5% | -6.3% | -1.5% | 10.3% | -1.7% | -1.7% | 3.6% | 1.3% | 2.5% | | | |

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Traffic Group: Forest Products

| 000s of Carloads | <u>Nov-21</u> | Dec-21F | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|------------------------------|---------------|---------|----------------|--------------|---------------|--------|--------------|--------------|--------------|
| Total Forest Products | 66.89 | 66.78 | 70.37 | 213.71 | 205.20 | 208.22 | 847.6 | 860.3 | 874.6 |
| P/P % Change | -6.5% | -0.2% | 5.4% | -2.2% | -4.0% | 1.5% | | | |
| Y/Y % Change | 2.3% | -5.8% | -3.4% | 4.7% | -1.3% | -0.9% | 3.9% | 1.5% | 1.7% |
| Primary Forest Products | 2.9% | -0.1% | 1.4% | -1.8% | 1.8% | 5.5% | 0.0% | 5.4% | -1.1% |
| Lumber & Wood Products | 1.9% | -7.0% | -7.2% | 0.1% | -1.8% | -2.0% | 5.7% | 0.5% | 1.5% |
| Pulp & Paper Products | 2.5% | -6.3% | -1.5% | 10.3% | -1.7% | -1.7% | 3.6% | 1.3% | 2.5% |

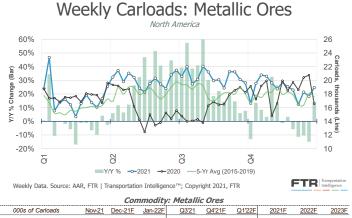
F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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Metals & Products



 000s of Carloads
 Nov-21
 Dec-21F
 Jan-22F
 Q321
 Q421F
 Q122F
 2021F
 2022E
 2023F

 Metallic Ores
 81.70
 82.33
 81.05
 273.02
 248.49
 233.36
 1,002.5
 98.8
 1,011.2

 YIY % Change
 5.3%
 -4.6%
 -0.3%
 26.9%
 1.6%
 4.6%
 12.2%
 -1.3%
 2.2%

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Weekly Carloads: Primary Metal Products



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| Commodity: Primary Metal Products | | | | | | | | | | | |
|-----------------------------------|--------|---------|---------|--------|--------|--------|-------|-------|-------|--|--|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F | | |
| Primary Metal Products | 51.61 | 53.68 | 56.10 | 179.35 | 161.17 | 166.29 | 671.4 | 659.7 | 667.5 | | |
| Y/Y % Change | 19.5% | 7.5% | 2.1% | 30.7% | 12.4% | 3.8% | 17.8% | -1.7% | 1.2% | | |

r = rorecasi

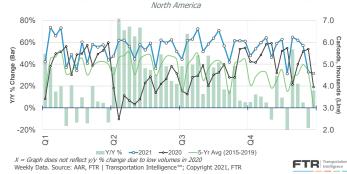
Source: FTR | Transportation Intelligence™: Copyright 2021_FTR

Weekly Carloads: Coke 40% 6.5 6.0 റ്റ 30% 5.5 20% ange 10% 5.0 ₹ 0% **≥** -10% 3.5 -20% -30% 3.0 02 8 8 8 **-**0**-**2021 **-**0**-**2020 --5-Yr Avg (2015-2019) FTR Transportation Intelligence Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| Commodity: Coke | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|------|-------|------|--|--|--|
| 000s of Carloads <u>Nov-21</u> <u>Dec-21F</u> <u>Jan-22F</u> <u>Q3'21</u> <u>Q4'21F</u> <u>Q1'22F</u> <u>2021F</u> <u>2022F</u> <u>2023F</u> | | | | | | | | | | | | |
| Coke | 19.51 | 60.05 | 256.4 | 248.1 | 251.5 | | | | | | | |
| Y/Y % Change | 8.0% | 8.2% | -6.0% | 20.2% | 13.1% | -2.6% | 8.4% | -3.2% | 1.4% | | | |
| | | | | | | | | | | | | |

Source: FTR | Transportation Intelligence™: Copyright 2021 FTR

Weekly Carloads: Iron & Steel Scrap



| Commodity: Iron & Steel Scrap | | | | | | | | | | | |
|--|-------|------|------|-------|------|------|-------|------|-------|--|--|
| 000s of Carloads <u>Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 2021F 2022F 2023F</u> | | | | | | | | | | | |
| Iron & Steel Scrap 23.57 23.00 26.52 78.78 71.93 76.44 297.0 299.4 288 | | | | | | | | | | | |
| Y/Y % Change | 13.6% | 3.8% | 1.1% | 29.5% | 6.0% | 5.9% | 20.2% | 0.8% | -3.6% | | |
| | | | | | | | | | | | |

F = Forecast

Source: FTR | Transportation Intelligence™: Copyright 2021 F

Traffic Group: Metals & Products

| 000s of Carloads | Nov-21 | Dec-21F | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | 2022F | 2023F |
|---------------------------|--------|---------|----------------|--------------|--------|--------|--------------|---------|---------|
| Total Metals & Products | 176.39 | 179.78 | 184.49 | 598.53 | 544.70 | 536.13 | 2,227.2 | 2,197.1 | 2,218.7 |
| P/P % Change | -6.4% | 1.9% | 2.6% | 5.6% | -9.0% | -1.6% | | | |
| Y/Y % Change | 10.6% | 1.2% | -0.1% | 27.6% | 6.5% | 3.7% | 14.4% | -1.4% | 1.0% |
| Metallic Ores | 5.3% | -4.6% | -0.3% | 26.9% | 1.6% | 4.6% | 12.2% | -1.3% | 2.2% |
| Coke | 8.0% | 8.2% | -6.0% | 20.2% | 13.1% | -2.6% | 8.4% | -3.2% | 1.4% |
| Primary Metal Products | 19.5% | 7.5% | 2.1% | 30.7% | 12.4% | 3.8% | 17.8% | -1.7% | 1.2% |
| Iron & Steel Scrap | 13.6% | 3.8% | 1.1% | 29.5% | 6.0% | 5.9% | 20.2% | 0.8% | -3.6% |

F = Forecast

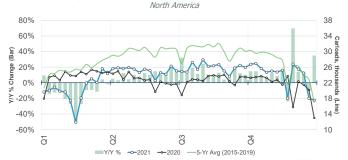
Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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Nonmetallic Minerals & Products

Weekly Carloads: Stone, Sand, Gravel



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

 Commodity: Crushed Stone

 000s of Carloads
 Now-21
 Dec-21F
 Jan-22F
 Q3'21
 Q4'21F
 Q1'22F
 2021F
 2022F
 2028F

 Crushed Stone
 99.85
 87.86
 87.76
 342.85
 300.74
 274.26
 1,224.9
 1,255.3
 1,305.5

 YIY % Change
 14.6%
 4.8%
 1.9%
 14.1%
 9.2%
 6.7%
 3.8%
 2.5%
 4.0%

Source: ETR | Transportation Intelligence™: Copyright 2021_ETR

Weekly Carloads: Nonmetallic Minerals



Commodity: Nonmetallic Minerals 000s of Carloads Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 2023F Nonmetallic Minerals 277.0 Y/Y % Change -2.5% -4.8% -3.1% 5.5% -4.4% -4.8% -1.9% -0.8% 9.3%

r = rorecast Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Weekly Carloads: Stone, Clay, Glass



Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR

| | Con | nmodity | : Stone, | Clay & | Glass Pr | oducts | | | |
|---------------------------------|--------|---------|----------|--------|----------|--------|-------|-------|-------|
| 000s of Carloads | Nov-21 | Dec-21F | Jan-22F | Q3'21 | Q4'21F | Q1'22F | 2021F | 2022F | 2023F |
| Stone, Clay & Glass Products | 48.16 | 44.76 | 45.78 | 163.50 | 146.87 | 142.08 | 605.4 | 624.1 | 633.2 |
| Y/Y % Change | 0.8% | -3.5% | -0.7% | 5.6% | -1.4% | 4.2% | 3.8% | 3.1% | 1.5% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Traffic Group: Nonmetallic Minerals

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|---------------------------------|---------------|----------------|----------------|--------------|--------|--------|--------------|--------------|--------------|
| Nonmetallic Minerals | 167.09 | 151.31 | 152.68 | 573.96 | 506.97 | 472.89 | 2,085.7 | 2,132.6 | 2,215.6 |
| P/P % Change | -11.4% | -9.4% | 0.9% | 4.0% | -11.7% | -6.7% | | | |
| Y/Y % Change | 8.2% | 1.0% | 0.4% | 10.5% | 4.2% | 4.5% | 3.1% | 2.2% | 3.9% |
| Crushed Stone | 14.6% | 4.8% | 1.9% | 14.1% | 9.2% | 6.7% | 3.8% | 2.5% | 4.0% |
| Non-Metallic Minerals | -2.5% | -4.8% | -3.1% | 5.5% | -4.4% | -4.8% | -1.9% | -0.8% | 9.3% |
| Stone, Clay & Glass Products | 0.8% | -3.5% | -0.7% | 5.6% | -1.4% | 4.2% | 3.8% | 3.1% | 1.5% |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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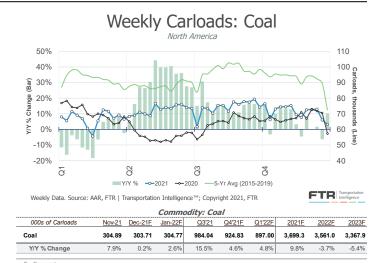


Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

N.A. Carload Commodities

Automotive & Coal

Weekly Carloads: Motor Vehicles & Parts 700% 35 Carloads, t 600% 500% 400% 20 🕏 300% 200% 15 g 100% 10 (Line) 0% -100% 02 Q3 8 9 ■Y/Y % --2021 --2020 ----5-Yr Avg (2015-2019) Weekly Data. Source: AAR, FTR | Transportation Intelligence™; Copyright 2021, FTR Commodity: Autos and Parts 000s of Carloads Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 2023F 260.85 1,303.0 Y/Y % Change -12.9% -19.3% -19.9% -0.6% 13.3% 7.7%



| Traffic Group: Automotive | | | | | | | | | | |
|---------------------------|---------------|---------|----------------|--------------|--------|--------|--------------|--------------|--------------|--|
| 000s of Carloads | <u>Nov-21</u> | Dec-21F | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> | |
| Total Automotive | 87.96 | 81.85 | 79.89 | 252.51 | 260.85 | 266.00 | 1,068.3 | 1,210.2 | 1,303.0 | |
| P/P % Change | -3.4% | -6.9% | -2.4% | -3.1% | 3.3% | 2.0% | | | | |
| Y/Y % Change | -12.9% | -19.3% | -19.9% | -21.8% | -17.5% | -9.7% | -0.6% | 13.3% | 7.7% | |
| Autos and Parts | -12 9% | -19.3% | -19 9% | -21.8% | -17 5% | -9 7% | -0.6% | 13.3% | 7 7% | |

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Traffic Group: Coal

| ······································ | | | | | | | | | | |
|--|------------------|---------------|----------------|----------------|--------------|--------|--------|--------------|--------------|--------------|
| | 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | Q4'21F | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
| | Total Coal | 304.89 | 303.71 | 304.77 | 984.04 | 924.83 | 897.00 | 3,699.3 | 3,561.0 | 3,367.9 |
| | P/P % Change | -3.6% | -0.4% | 0.3% | 5.3% | -6.0% | -3.0% | | | |
| | Y/Y % Change | 7.9% | 0.2% | 2.6% | 15.5% | 4.6% | 4.8% | 9.8% | -3.7% | -5.4% |
| | Coal | 7.9% | 0.2% | 2.6% | 15.5% | 4.6% | 4.8% | 9.8% | -3.7% | -5.4% |

F = Forecast

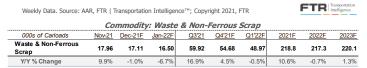
Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

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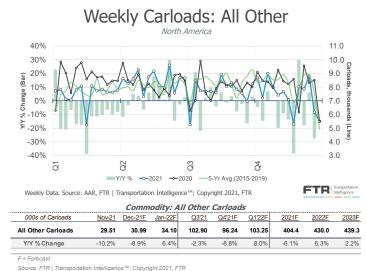
Other Carloads

Weekly Carloads: Waste & Other Scrap 50% 5.2 4.9 Carload 40% 80% 4.3 5 20% % Change 4.0 10% 0% 3.7 g 3.4 (1) -20% 3.1 -30% 2.8 02 03 8 9 **-0-**2021 **-0-**2020



F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR



Traffic Group: Other Carloads 000s of Carloads Nov-21 Dec-21F Jan-22F Q3'21 Q4'21F Q1'22F 2021F 2022F 2023F **Other Carloads** 47.47 48.10 50.60 162.82 150.93 152.22 623.2 647.3 659.4 P/P % Change -14.3% 1.3% 5.2% -1.1% -7.3% 0.9% Y/Y % Change -3.5% -6.3% 1.7% 4.0% -4.4% 5.1% -0.9% 3.9% 1.9% Waste & Non-9.9% -1.0% -6.7% 16.9% 4.5% -0.5% 10.6% -0.7% 1.3% **Ferrous Scrap** 8.0% **All Other Carloads** -8.9% 6.4% -2.3% -6.1% 6.3% 2.2% -10.2% -8.8%

F = Forecast

Source: FTR | Transportation Intelligence™; Copyright 2021, FTR

Economically Sensitive Freight: Carloads Overview

| 000s of Carloads | <u>Nov-21</u> | <u>Dec-21F</u> | <u>Jan-22F</u> | <u>Q3'21</u> | <u>Q4'21F</u> | Q1'22F | <u>2021F</u> | <u>2022F</u> | <u>2023F</u> |
|--------------------|---------------|----------------|----------------|--------------|---------------|---------|--------------|--------------|--------------|
| Total ESF Carloads | 799.83 | 781.71 | 797.92 | 2,566.7 | 2,441.5 | 2,410.4 | 9,941.6 | 10,176.9 | 10,478.6 |
| P/P % Change | -7.0% | -2.3% | 2.1% | 0.6% | -4.9% | -1.3% | | | |
| Y/Y % Change | 2.7% | -4.9% | -4.0% | 5.1% | -1.3% | 1.2% | 4.0% | 2.4% | 3.0% |

F = Forecast

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Commentary

Carload faced an interesting 2021 with modest growth Growth will slow further this year

Carload volume growth posted a modest gain in 2021 compared to 2020's pandemic-reduced results, but that growth is expected to slow further. Service issues and congestion did not help carriers' quest to attract more carloads to manifest service.

Promises delayed

This year was supposed to be the year that railroads showed shippers the fruits of the Precision Scheduled Railroading principles the industry implemented over the last few years. Carriers would supposedly be able to maintain service levels while growing volumes and keeping headcount low to cap costs. Unfortunately, for the rail industry and the shippers that rely on it, service never truly recovered from weather-related disruptions that occurred in February, and service languished near five-year average levels for much of the year. The effects were not evenly distributed among carriers and some shippers have experienced dramatically worse effects than others based on where they are located.

Carriers have slimmed their engineer and conductor ranks dramatically over the past two years, and this appears to be one of the major constraining factors to carriers not being able to quickly improve service. It takes six to nine months for a new hire to successfully complete the federal training and certification requirements to be able to productively operate a locomotive on the North American rail system. The present issues are likely to linger into early 2022 and hold back volume growth. Shippers have a long memory, and the service woes that seem to occur every few years will help push carload growth rates weaker and into a consistent growth trajectory that is less than GDP.

Economically sensitive freight bears watching

In 2021 economically sensitive freight consistently underperformed the overall carload market, and this should raise concerns into the new year. Economically-sensitive freight excludes coal, agriculture, and petroleum, focusing attention on those commodity sectors like lumber and wood and metals that are more closely tied to the underlying

economy. The category's underperformance underscores that shippers with choice in these sectors chose truck in 2021 over rail, even though truck capacity was tight and rates were high.

Carriers have tried to attract this business with various initiatives over the last decade with minimal success. One of the major stumbling blocks has been the lack of consistent, reliable service that shippers can build their supply chains around. If the economically sensitive freight category continues to struggle into next year, it will show shipper confidence in rail has significantly eroded.

Regulators leaned forward in 2021

The Surface Transportation Board took on an enhanced role in 2021 that is unlikely to change any time soon. The calendar page flipping to 2022 only showcases the foundation the agency laid this past year, with several public hearings already on the docket for the first quarter.

The board is keenly interested in service issues along with ensuring that small, carload shippers are represented and able to access its regulatory remedies. This has the potential to introduce new regulatory remedies including final offer arbitration and more small rate case review options that could be onerous to carriers.

In many ways, 2022 will be a continuation of many of the trends that took shape in the second half of 2021, with rail service and slowing carload growth in focus. The regulators are here to stay as well which has implications for carriers and shippers alike.

Weekly Carloads: Economically Sensitive Freight



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Glossary

General Terms

Annualized rate

A rate of return for a given period that is less than 1 year, but it is computed as if the rate were for a full year.

Average Length-of-Haul

Total tonmiles divided by total tons.

Basis Points

A unit that is equal to 1/100 of 1%. If something increased from 2.2% to 2.8%, it increased 60 basis points.

Economically Sensitive Freight

A category of rail carload traffic that excludes Coal, Petroleum & Petroleum Products, Grain, and Grain Mill Products.

Goods Transportation Sector

Components of GDP that are critical in demand for goods and thereby induce demand for transportation services.

M/M

Month over month. The difference in percentage or units when compared to the previous month.

New Truck Lead Time

The Backlog of Class 8 truck orders divided by the Build for a given month. Gives an indication of the average length of time in months for a fleet to take delivery of a new truck order.

Rail Carloads

Rail carloads is the seasonally adjusted number of carloadings originated in the United States plus loads that come to U.S. destinations from Mexico and Canada. Data in this report excludes intermodal loadings.

Rail Shippers Conditions Index (RCI)

A measure of market conditions that influence the rail shippers freight transport environment. This index tracks the changes representing five major conditions in the U.S. carload freight market. The conditions are: freight demand, freight rates, fleet capacity, carload service, and fuel price. The individual metrics are combined into a single index that tracks the conditions that influence the rail shippers freight transport environment. A positive score represents good, optimistic conditions; a negative score represents bad, pessimistic conditions.

Railcar Utilization Rate

This metric calculates the percentage of the total population of railcars that is required to move the N.A. rail freight. In general, a figure above 90% indicates a tight market where the majority of the railcar population is at work. A figure below 80% indicates a weak market where a significant portion of the population is idle or underutilized.

SAAR

Seasonally Adjusted Annualized Rate

Shippers Conditions Index (SCI)

This index tracks the changes representing four major conditions in the U.S. full-load freight market. The major conditions are: freight demand, freight rates, fleet capacity, and fuel price. The individual metrics are combined into a single index that tracks the market conditions that influence the shippers freight transport environment. A positive score represents good, optimistic conditions; a negative score represents bad, pessimistic conditions.

STCC

Standard Transportation Commodity Code (Similar to the SIC/NAICS Codes with a few added categories designed for transportation movements)

TEL

Twenty Foot Equivalent Unit. Used for reported port container statistics.

Ton

Tonnage. Ton Originated by specific mode (i.e. one ton of coal shipped by rail and then by water would be shown as two tons of coal). This is Domestic Traffic Only. Export movements are included only as far as the border or to a port in which it will be directly exported. The same is true for Imports. An import is counted once it reaches the border or a port.

Tonmile

One ton moved one mile = one tonmile.

Truck Driver Pressure Index

The index tracks carriers' need for additional drivers based on trends in the business cycle, demographics, and regulations. Business cycles create natural shortages (and surpluses) that stem from typical economic activity. Demographic changes in any given year are small and only add up after a significant time span. Regulations vary across the industry and are difficult to predict due to changing priorities and uncertain response.

The index baseline is zero, representing balance in the driver hiring environment. Positive readings suggest greater pressure on rates and utilization; negative readings suggest less pressure.

Truck Loadings

Truck loadings is the estimated number of truck loads originated in the United States plus truck loads that come to U.S. destinations from Mexico and Canada. It is tons divided by the average tons per load.

Truck Utilization Rate - "Active"

This metric calculates the percentage of the population of active trucks that is required to move the U.S. truck freight. In general, a figure above 95% indicates a tight market where the majority of the truck population is at work. A figure below 90% indicates a weak market where a significant portion of the truck population is idle.

Truck Utilization Rate - "Total"

This metric calculates the percentage of the total population of trucks that is required to move U.S. truck freight. In general, a figure above 90% indicates a tight market, a figure below 85% indicates a weak market.

Trucking Conditions Index (TCI)

This index tracks the changes representing four major conditions in the U.S. full-load truck market. The major conditions are: freight demand, freight rates, fleet capacity, and fuel price. The individual metrics are combined into a single index that tracks the market conditions that influence fleet behavior. A positive score represents good, optimistic conditions; a negative score represents bad, pessimistic conditions.

<u>Y/Y</u>

Year over year. The difference in percentage or units when compared to the same month, quarter, or time period of the previous year.

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Glossary ...

Trailer Types

Dry Van

An enclosed, rectangular, box trailer that carries general freight.

Refrigerated (Reefer) Van

A refrigerated and insulated van used to transport temperaturesensitive freight.

Flatbed (Platform)

A flat surfaced, open, trailer with no enclosure or doors.

Specialized (Specialty)

There is a wide assortment of specialized trailers that are highly engineered for specific purposes (i.e. auto hauler, livestock, lowbed, oversized, etc.)

Tank (Tanker)

A trailer with an enclosed, sealed, cylinder-shaped tank used to carry liquid or dry bulk freight.

Bulk/Dump

This is a combined group of Dump trailers and Straight Trucks. A Dump trailer has an open-top box (bucket) used for hauling dirt, rocks or gravel. Discharge can be from end, bottom, or side. Straight Trucks have the trailing equipment permanently mounted to the chassis. The largest segment are Dump Trucks that haul stone and aggregates.

Railcar Types

Box Cars

An enclosed car which has doors. It is used for general service and for lading which must be protected from the weather.

Covered Hoppers

A hopper car with a permanent roof and bottom openings for unloading. Used for carrying cement, grain, or other bulk commodities.

Flat Cars

An open car without sides, ends or top, used principally for hauling lumber, stone, heavy machinery, TOFC/COFC equipment, etc.

Gondolas

A car without a top covering which has straight sides and ends, the floor or bottom of which is approximately level. Used for bulk freight.

Open-Top Hoppers

Cars having sides and ends but no roof with a sloping floor which will discharge its load by gravity through the hopper doors.

Tank Cars

A car which consists of a tank for carrying liquids such as oil, molasses, vinegar, acids, compressed gasses and granular solids.

Freight Rates

Dry Van

Revenue per Loaded Mile. Spot/contract rates for Dry Van activity both with and w/o Fuel Surcharge (FSC).

Indexed to 1Q2008.

Refrigerated (Reefer) Van

Temperature-Controlled (TC). Revenue per Loaded Mile. Spot/contract rates for Refrigerated activity both with and w/o Fuel Surcharge (FSC).

Indexed to 1Q2008.

Flatbed (Platform)

Revenue per Loaded Mile. Spot/contract rates for Flatbed activity both with and w/o Fuel Surcharge (FSC).

Indexed to 1Q2008.

Specialized

Revenue per Loaded Mile. Spot/contract rates for Specialized equipment both with and w/o Fuel Surcharge (FSC).

Indexed to 1Q2008. Note: Includes numerous types of trailer freight, but generally excludes tank trailers.

Less-Than-Truckload (LTL)

Revenue per hundredweight. Contract rates for LTL moves. These are parcel, pallet, or less than full truckload moves by LTL carriers.

Indexed to 1Q2008.

Intermodal

Revenue per Load. An estimate of pricing trajectory that is calculated based on the underlying cost pressures from dry van truckload and rail line-haul. Shown both with fuel surcharges (FSC) included and net of FSC.

Indexed to 1Q2008.

Rail Carload

An estimate of U.S. Class I rail pricing power that is calculated from data reported to the STB. It measures revenue per tonmile and is shown both with fuel surcharges (FSC) included and net of FSC. It is impacted by both actual railroad rates and by changes in the mix of commodities moved.

Indexed to 1Q2008.

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Glossary ...

AAR Carload Commodity Definitions

Chemicals

Industrial chemicals, plastic resins, fertilizer, ethanol, hazardous materials, etc.

Coal

Coal. Includes anthracite, bituminous, and lignite coal.

Coke

Petroleum coke, coke produced from coal, and coal or coke briquettes

Crushed Stone, Sand & Gravel

Crushed or broken stone, sand, aggregate, gravel

Farm Products Excluding Grain

Primarily fresh fruits and vegetables. Includes all farm products except grains and soybeans.

Food Products

Canned goods, meat and animal products, sugar, beverages, seed and vegetable oils, etc.

Grain

Primarily corn, wheat, and soybeans but also includes oats, barley, rye, sorghum, etc.

Grain Mill Products

Soybean meal, corn syrup, animal feed, flour, corn starch, milled rice, distiller's dried grains (DDG), etc.

Iron and Steel Scrap

Iron and steel (i.e. ferrous) scrap

Lumber & Wood Products

Lumber and dimension stock, plywood, etc.; does not include furniture

Metallic Ores

Overwhelmingly iron ore, but some aluminum ore, copper ore, etc.

Motor Vehicles & Parts

Finished vehicles, parts, auto and truck bodies, etc.

Nonmetallic Minerals

Phosphate rock, rock salt, crude sulphur, clay, etc.

Petroleum & Petroleum Products

Crude petroleum and products of petroleum refining such as liquefied gases, jet fuel, fuel oil, lubricating oils, asphalt tars, etc.

Primary Forest Products

Wood raw materials such as pulpwood and wood chips

Primary Metal Products

Primarily iron and steel products; some aluminum, copper, etc. Includes galvanized, and fabricated metal products, except ordnance materials, machinery, and transportation equipment.

Pulp & Paper Products

Paperboard, pulpboard, fiberboard, printing paper, pulp, newsprint, boxes, industrial paper, etc.

Stone, Clay & Glass Products

Ground nonmetallic minerals or earths, cement, lime, gypsum products, glass products, bricks and other clay products, abrasives, etc.

Waste & Scrap

Non-ferrous scrap metal, scrap paper, construction debris, ashes, etc.

All Other Carloads

Commodities not included in any of the above categories, excluding intermodal traffic

MEMO:

Economically Sensitive Freight

A category of rail carload traffic that excludes Coal, Petroleum & Petroleum Products, Grain, and Grain Mill Products.

AAR Carload Summary Traffic Groups

Agricultural Products

Grain; Farm Products; Grain Mill Products; Food Products

Automotive

Motor Vehicles & Parts

Chemicals

Chemicals; Petroleum & Petroleum Products

Coal

Coal

Forest Products

Primary Forest Products; Lumber & Wood Products; Pulp & Paper Products

Metallic Ores & Metals

Metallic Ores; Coke; Primary Metal Products; Iron & Steel Scrap

Non-Metallic Minerals and Products

Crushed Stone, Sand & Gravel; Non-Metallic Minerals; Stone, Clay & Glass Products

All Other

Waste & Non-Ferrous Scrap; All Other Carloads

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Rail Intermodal

Revenue Moves

Rail Intermodal Loadings of Units Originated. Intermodal is defined as a movement of a container or trailer via more than one mode of transportation (i.e. rail + truck or ship + rail or ship + truck). This data tracks intermodal movements that involve the rail mode. Such movements may involve the movement of International and Domestic Containers as well as Trailers via rail.

Intermodal

Counts intermodal rail revenue movements, defined as any movement of a container or trailer, whether loaded or empty, that generates revenue for the railroad. Empty movements of rail-owned containers and trailers typically do not generate rail revenue and therefore are not captured in the data.

A revenue movement typically encompasses the entire journey from when the container or trailer is placed on the rail at the originating intermodal terminal to where it is removed from the railcar at the terminating intermodal terminal and may involve movement over more than one railroad.

Long-haul movements passing through rail gateways, such as Chicago, that involve highway transfer between terminals will generally be counted as two separate movements unless traveling on a through bill of lading.

Intermodal Competitive Index (ICI)

This index tracks the changes representing five major conditions in the U.S. rail intermodal market. The major conditions are: freight demand, freight rates, truck capacity, rail service, and fuel price. The individual metrics are combined into a single index that measures the competitive posture of domestic intermodal vs. OTR Truck.

A positive score represents favorable conditions for intermodal to compete with truck; a negative score represents reductions in intermodal's ability to gain additional market share from truck.

Intermodal Market Segments

These figures track the movement of equipment, not freight. Domestic freight being moved in 20', 40', or 45' containers will be counted as INTERNATIONAL. International cargo transloaded into Domestic Containers or trailers is counted as DOMESTIC.

- International

Includes movements of Containers of the following lengths only: 20', 40', and 45'.

- Domestic

Includes movements of Trailers and all other Containers not included in International movements. Trailers of the following lengths: 20', 28', 40', 45', 48', 53'+. Containers of the following lengths: 48', 53'+. Reported movements of 28' containers are converted to 28' trailers, as all 28' containers are reportedly permanently mounted on chassis and moving as trailers.

Long-Haul Market Share

Average Length of Haul 550 miles or longer. Designated by Commodity at the 3-Digit STCC level.

Intermodal Territories



Sources

Association of American Railroads

Weekly Rail Traffic Report

Bureau of Labor Statistics (BLS)

Employment, Consumer Prices, Producer Prices

Federal Reserve

Industrial Production Statistics

FTR

Freight-cast Transportation Model

Intermodal Association of North America (IANA)

ETSO Database

Port Reports

Monthly Container Volumes

Rail Reports

Weekly Market Metrics

Surface Transportation Board

Public Use Waybill, Rail Reporting Metrics

Truck/Trailer OEMs

Monthly Market Indicators

Truckstop.com

Weekly Spot Market Indicators

U.S. Census Bureau

Economic Census, USA Trade, Monthly Indicators

U.S. Department of Commerce

Industrial Reports; Commodity Flow Surveys, Monthly Indicators

Wards Automotive

RS-3S (Truck Retail Sales), FS-3 (Truck Factory Sales)

Witte Econometrics

U.S. Econometric Forecasting Model

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